Patent Claims

1) A composition comprising tiotropium, or a pharmaceutically acceptable salt thereof, salmeterol xinafoate, and a physiologically acceptable excipient.

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2) The composition according to claim 1 comprising tiotropium in combination with a counter-ion selected from among the chloride, bromide, iodide, methanesulphonate or para-toluenesulphonate thereof.

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3) The composition according to claim 1 wherein the salmeterol xinafoate comprises the characteristic values d= 21.5 Å; 8.41 Å; 5.14 Å; 4.35 Å; 4.01 Å and 3.63 Å in an X-ray powder diagram.

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4) The composition according to claim 1 wherein the salmeterol xinafoate has a compacted bulk volume of ≥ 0.134 g/cm³.

The composition according to claim 1 comprising salmeterol xinafoate in an

amount of 0.002 to 15%.

20 6) The composition according to claim 1 comprising tiotropium in an amount of

0.001 to 5%.

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7) The composition according to claim 1 comprising tiotropium and salmeterol xinafoate in a combined amount of from 5 to 5000µg.

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8) The composition according to claim 1 comprising a physiologically acceptable excipient selected from the group consisting of monosaccharides, disaccharides, oligoand polysaccharides, polyalcohols and salts.

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- 9) The composition according to claim 8 wherein the physiologically acceptable excipient is selected from among glucose, arabinose, lactose, saccharose, maltose and trehalose, optionally in the form of the hydrates thereof.
- 5 10) The composition according to claim 1 wherein the salmeterol xinafoate has a melting point of about 124°C.
 - 11) A capsule comprising the composition according to claim 1.
- 10 12) The capsule according to claim 11 comprising 1 to 20mg of the composition.
 - 13) The capsule according to claim 12 comprising 4 to 6mg of the composition.
 - 14) The capsule according to claim 12 comprising 8 to 12mg of the composition.
 - 15) An inhalation kit comprising the capsule according to claim 11 and an inhaler.
 - 16) The inhalation kit according to claim 15 wherein the inhaler comprises a housing comprising two windows, a deck in which there are air inlet ports and which is provided with a screen secured via a screen housing, an inhalation chamber connected to the deck on which there is a push button provided with two sharpened pins and movable counter to a spring, and a mouthpiece which is connected to the housing, the deck and a cover via a spindle to enable it to open or shut, and airholes for adjusting the flow resistance.
- 25 17) The composition according to claim 1 in the form of an inhalable powder.
 - 18) The composition according to claim 2 in the form of an inhalable powder.
 - 19) The composition according to claim 5 in the form of an inhalable powder.
 - 20) The composition according to claim 6 in the form of an inhalable powder.